STANDARD STRAIGHT BAR

BAR SIZE	* LOCATION CATEGORY			3 Times Bar	6 Times Bar =	c/c
	А	В	C	Diameter	Diameter	Spacing
#.4	1'-9''	1'-6''	I'-·3''	11/2"	3.′′	31/2′′
#5	2'-2''	'- ''	1'-6''	17/8''	33/4′′	43/8′′
#6	2'-7''	2'-3''	1'-10''	21/4′′	41/2′′	5 ¹ / ₄ ′′
#.7	3′-6′′	3′-1′′	2'-6''	25/8′′	5 ¹ / ₄ ′′	6 ¹ / ₈ ′′
#.8	4'-7''	4'-1''	3'-3''	3′′	6.′′	7!'
#.9	5′-9′′	5′-1′′	4'- ''	33/8′′	63/4′′	71/8′′
#10	7'-4''	6′-6′′	5′-2′′	3¾′′	75/8′′	87/8′′
#.	9'-0''	7'-11''	6'-4''	41/4''	81/2′′	9%′′

* LOCATION CATEGORY:

- A-Bars in horizontal layers in top of pour with 12" or more of concrete below them such as in: footings, pier caps, etc.
- B-All bars not in Category A spaced less than 6" apart. C-All bars not in Category A spaced 6" or more apart.

- I. When development length is not specified on the Plans, the above dimensions shall be used.
- 2. These development lengths do not apply when bar is in lightweight concrete
- or any other strength of concrete. 3. These bar laps only apply where the General Notes indicate "Reinforcing Steel Design, fs= 24,000 p.s.i."

CASE NO.1 - For bars coated with epoxy with cover less than 3 times the bar diameter or clear spacing between bars less than 6 times the bar diameter.

APPROVAL					
C.5 Treedman DIRECTOR OFFICE OF STRUCTURES					
DATE: 2/2/90					
REVISIONS					
SHA	FHWA				
11-23-93					
1-22-01					
DATE: 2/2/5 REVIS SHA II-23-93	90 BIONS				

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

DEVELOPMENT LENGTH DIMENSIONS FOR GRADE 60 REINFORCING STEEL
IN MIX NO.3 (3500 P.S.I.) CONCRETE
EPOXY COATED REINFORCING CASE NO.1

FHWA APPROVAL 9-20-05 **STANDARD NO.** M(6,14)-90-214 12-4-07

SHEET 2 OF 3